

631.841

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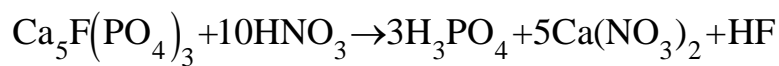
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The research of features of decomposing of phosphoresces in technological processes of reception of complex fertilizing gets the increasing value in connection with transferring an industry to use of low-grade phosphates ores. Let's consider a method of account of kinetics Novo - Amvrosivskogo of a concentrate

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$$-\frac{dM}{dt} = k \times m \times F \times C_R \quad (1)$$

F – ; k – ;
 ; C_R – , -
 ; m –

W³ , G₀ -

G₁ ,

$$G_0 - G = W \times (C_1 - C_H) \tag{2}$$

1 -

:

$$s \left(1 - \frac{G}{G_0} \right) = C_1 - C_H; \quad s = \frac{G_0}{W} \tag{3}$$

, (m = C_H; > 0)

$$\left(1 - \frac{G}{G_0} \right) = C_1 - C_H \tag{4}$$

d, -

:

$$G_0 = N \frac{\pi d_0^3}{6} \gamma; \quad G = N \frac{\pi d^3}{6} \gamma; \quad F = N \pi d^2 \tag{5}$$

(1) (3). -

:

$$\left(\frac{1}{-} \right) - () = \frac{a^2 S}{x} 2 \frac{kt}{d_0} \tag{6}$$

$$a = 3 \sqrt{\frac{C_S - C_H}{S} - 1} \tag{7}$$

s - , / .

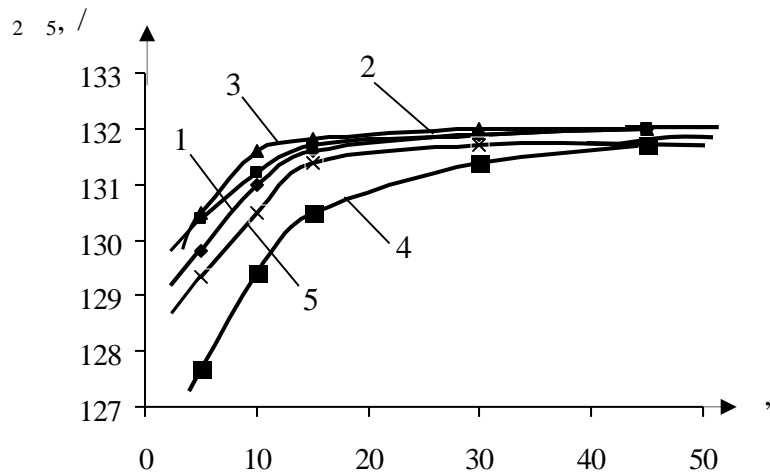
()

$$() = \frac{1}{6} \times \ln \frac{(1+x)^2}{1-x+x^2} + \frac{1}{\sqrt{3}} \operatorname{arctg} \frac{2-x}{\sqrt{3}} \quad (8)$$

: , 0,25 , 100
56 %-
134,73 .

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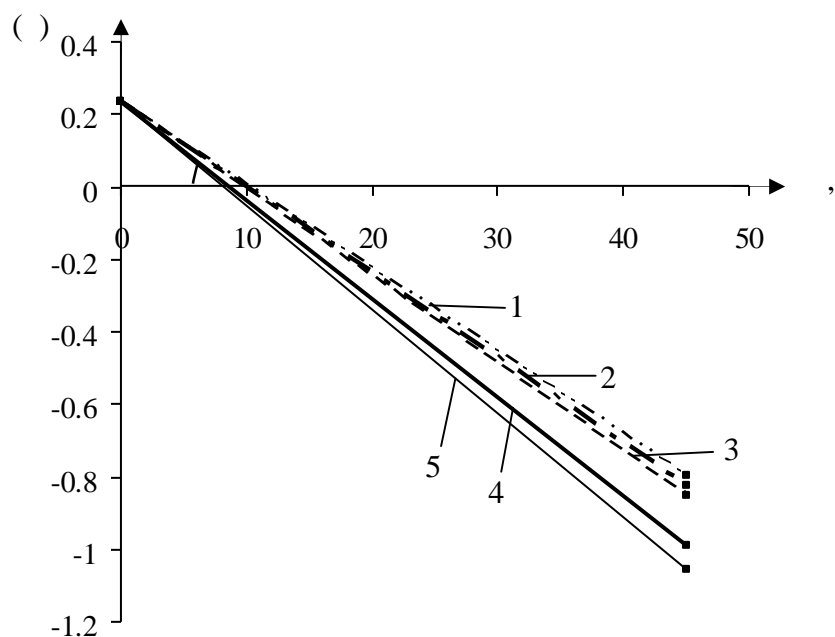
2 5 .1
.2.



.1. 60° ,
4 – 45° , 5 – 50° (/):
1 – 80, 2 – 160, 3 – 250, 4 5 – 80

() t (. -

6). ,
-



2. : 1 – 80 / , = 60 ° ; 2 – 160 / , = 60 ° ;
3 – 280 / , = 60 ° ; 4 – 80 / , = 45 ° ; 5 – 80 / , = 50 °

k

:

$$k = \frac{3 \times G_0 \times \text{tg}}{F_0 \times \times a^2 \times m} \quad (7)$$

:

$K_1 = 8.09 \cdot 10^{-6}$ / N = 80 / , = 60 ° ; $K_2 = 8.10 \cdot 10^{-6}$ /
N = 160 / , = 60 ° ; $K_3 = 8.11 \cdot 10^{-6}$ / N = 280 / , = 60 ° ;
 $K_4 = 8.18 \cdot 10^{-6}$ / N = 80 / , = 45 ° ; $K_5 = 8.21 \cdot 10^{-6}$ /
N = 80 / , = 50 ° .

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$8.15 \cdot 10^{-6}$ / .

: 1.

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. , 1984, - 3 – . 21-22.

2. . . . – . : , 1977, .245.

19.04.07